MATERIAL PART LIST

for M4650CR

ITEM	NO.	NAME	DESCRIPTION CONTENTS REVISED	REMARKS
1	12	HYBRID I.C.	CBC-HD-08 1EA	INS
2	70	E. C.	47 uF/16V 3EA → 4EA	INC
3	75	C. C.	220 pF 1EA → 2EA	INC

※ M4650CR 에서 TELEDYNE LSI 를 사용하기 위하여 정수 변경(정 명화 대리님에 의함)
(92년 2월 10일자 협조전 참조)

NO : 9th Rev.

MODEL : M 4650CR

DATE : Feb. 12, 1992.

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CHARGE	CHECKED	APPROVED

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NO.	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	REMARKS
1	C.P.U.	89CR	ea	1	IC2	SMD TYPE (80 PIN)
2	L.S.I.	ICL7129CPL	ea	1	IC1	DIP TYPE (40 PIN)
3	I.C.	74HC148	ea	2	IC3,4	SMD TYPE
4	〃	74HC08	ea	1	IC5	〃
5	〃	4027	ea	1	IC8	〃
6	〃	4512	ea	1	IC6	〃
7	〃	4010	ea	2	IC12,13	〃
8	HYBRID I.C.	ADC-HD201CR	ea	1	IC9	
9	〃	CDC-HD204CR	ea	1	IC10	
10	〃	FDC-HD205CR	ea	1	IC11	
11	〃	LIC-HD-13	ea	1	IC7	
12	〃	CBC-HD-08	ea	1	IC14	
13	L.C.D.	0487	ea	1		
14	CRYSTAL	38.4 KHZ	ea	1	XT1	
15	〃	100 KHZ	ea	1	XT2	
16	REF. DIODE	BJ 04 or ICL 8069	ea	1	D8	
17	TRANSISTOR	A 733 / 3909M	ea	3	TR3,4,5	
18	〃	C 945	ea	1	TR2	
19	〃	MPSA 42	ea	1	TR1	
20	R. DIODE	1N4007	ea	7	D1,2,3,4,5,6,7	
21	SW. DIODE	1N4148	ea	3	D9,10,11	
22	VARISTOR	AG-20	ea	1	GT1	
23	PHOTO COUPLER	LTV -817/TLP621-1(CR)	ea	2	PC1,2	
24	RESISTOR ARRARY	100K-9PIN	ea	1	RA1	
25	〃	100K-5PIN	ea	2	RA2,3	

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26	POSISTOR	1 K	ea	1	PO1	
27	PIEZO BUZZER	ϕ 20	ea	1	BZ1	
28	M.T.V.R.	200 Ω	ea	1	VR1	
29	M.D.V.R.	50 KΩ	ea	1	VR5	
30	〃	200 Ω	ea	2	VR2,3	
31	〃	2 KΩ	ea	1	VR4	
32	M.F.R. ½ W D	1 KΩ	ea	1	R1	
33	M.F.R ½ W F	80KΩ	ea	1	R49	
34	M.F.R. ½ W D	9 MΩ	ea	1	R2	NET - WORK
35	〃	900 KΩ	ea	1	R3	〃
36	〃	90 KΩ	ea	1	R4	〃
37	〃	9 KΩ	ea	1	R5	〃
38	〃	900 Ω	ea	1	R6	〃
39	〃	100 Ω	ea	1	R7	〃
40	〃	900 KΩ	ea	1	R17	SPEC-OUT
41	〃	90 KΩ	ea	1	R18	〃
42	〃	75 Ω	ea	1	R20	〃
43	〃	900 KΩ	ea	1	R16	CAPACITOR RESISTOR
44	〃	9 KΩ	ea	1	R14	〃
45	〃	90 Ω	ea	1	R12	〃
46	〃	100 Ω	ea	1	R8	CURRENT RESISTOR
47	M.F.R. ¼ W F	150 KΩ	ea	1	R22	
48	〃	20K Ω	ea	1	R50	
49	〃	16K Ω	ea	1	R28	
50	〃	4K Ω	ea	2	R26,27	

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q`TY	PART NO.	REMARKS
51	M.N.W.R. 2 W	1 Ω	ea	1	R10	
52	M.N.P.R. 10 W	0.01 Ω	ea	1	R11	
53	C.F.R. ¼ W J	75 Ω	ea	1	R52	
54	〃	470 Ω	ea	1	R46	
55	〃	750 Ω	ea	1	R42	
56	〃	1 KΩ	ea	1	R47	
57	〃	2.2 KΩ	ea	1	R34	
58	〃	3.3 KΩ	ea	2	R38,39	
59	〃	7.5 KΩ	ea	1	R40	
60	〃	10 KΩ	ea	1	R9	
61	〃	47 KΩ	ea	2	R41,35	
62	〃	51 KΩ	ea	1	R53	
63	〃	100 KΩ	ea	5	R24,37,44,45,48	
64	〃	330 KΩ	ea	2	R29,51	
65	〃	1 MΩ	ea	1	R25	
66	〃	2.2 MΩ	ea	2	R19,21	
67	C.F.R. ⅛ W J	10 KΩ	ea	1	R36	
68	〃	100 KΩ	ea	1	R43	
69	〃	1 MΩ	ea	4	R30,31,32,33	
70	E. C.	47 uF/16 V	ea	4	C13,24,25,26	
71	〃	10 uF/16 V	ea	2	C5,15	
72	〃	4.7uF/16 V	ea	2	C3,4	
73	〃	1 uF/16 V	ea	1	C23	
74	〃	0.33 uF/16 V	ea	1	C1	
75	C. C.	220 pF	ea	2	C2,27	

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76	〃	56 PF	ea	1	C19	
77	C. C.	10 pF	ea	1	C14	
78	〃	5 pF	ea	1	C12	
79	〃	104	ea	1	C16	CR 用
80	CHIP C. C.	104	ea	3	C18,20,21	
81	〃	10 pF	ea	1	C11	
82	M. C.	104	ea	1	C6	
83	SCHIROLL. C.	180 pF	ea	1	C7	
84	T. XCAPACITOR	0.1 uF/50WV	ea	1	C8	
85	M.P.P.C.	104/250WV	ea	1	C9	
86	〃	104/63WV	ea	1	C10	
87	I.C. SOCKET	40 PIN	ea	1		
88	〃	18 PIN (1/2)	ea	1		
89	CONNECTOR PIN	9 PIN	ea	1		
90	SWITCH	TACT S.W	ea	3	SW2,3,4	SPT-2288N
91	〃	PUSH S.W	ea	1	SW1	SPT-1102
92	P.C.B.	155.5X75.0X1.6t	ea	1		
93	〃	133.5X75.0X1.6t	ea	1		
94	〃	38.3X73.5X1.6t	ea	1		C.P.U. 用 P.C.B.
95	FUSE CLIP	P.C.B. TYPE	ea	2		1A3399-10
96	FUSE	250 V / 2A	ea	2		
97	RS232C HOUSING	MOLEX 3024-5A	ea	1		
98	BATTERY SNAP	9V FC-1 TYPE	ea	1		WIRE 180 mm
99	TR. SOCKET	M 3650CR	ea	1		
100	GROUND POLE	M 3600	ea	1		

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	REMARKS
101	JACK TERMINAL	φ 5.0 X 17.0	ea	4		PIPE TYPE
102	SILICON RUBBER	66.5 X 3.7 X 1.9t	ea	1		
103	C SOCKET	M 3650B	ea	1		
104	C SOCKET PIN	M 3650CR	ea	2		
105	BATTERY	9 V	ea	1		
106	FRONT CASE	M 3650CR	ea	1		
107	BACK CASE	〃	ea	1		
108	BATTERY COVER	〃	ea	1		
109	L.C.D. BASE	〃	ea	1		
110	C.P.U. BASE	〃	ea	1		
111	GASKET	M 4650CR	ea	1		
112	WINDOW	37.5 X 71.5 X 1.0t	ea	1		PC
113	SELECTOR	M 3650CR	ea	1		
114	SELECTOR GUIDE	M 3650 B	ea	2		
115	PLATE SPRING	〃	ea	2		
116	KNOB	〃	ea	1		
117	KEY RUBBER	M 3650CR	ea	4		2 TYPE
118	RUBBER GUIDE	〃	ea	2		2 TYPE
119	FRONT PANEL	M 4650CR	ea	1		73 X 89 X 0.3 t
120	JACK PANEL	〃	ea	1		
121	SELECTOR SHAFT	M 3650CR	ea	1		
122	CONTACTOR	M 3650B	ea	8		
123	SHIELD PAPER	M 3650CR	ea	1		
124	SCREW BOLT	M 3.0 X 22.0	ea	4		in use FRONT CASE
125	〃	M 2.6 X 10.5	ea	1		in use BATTERY COVER

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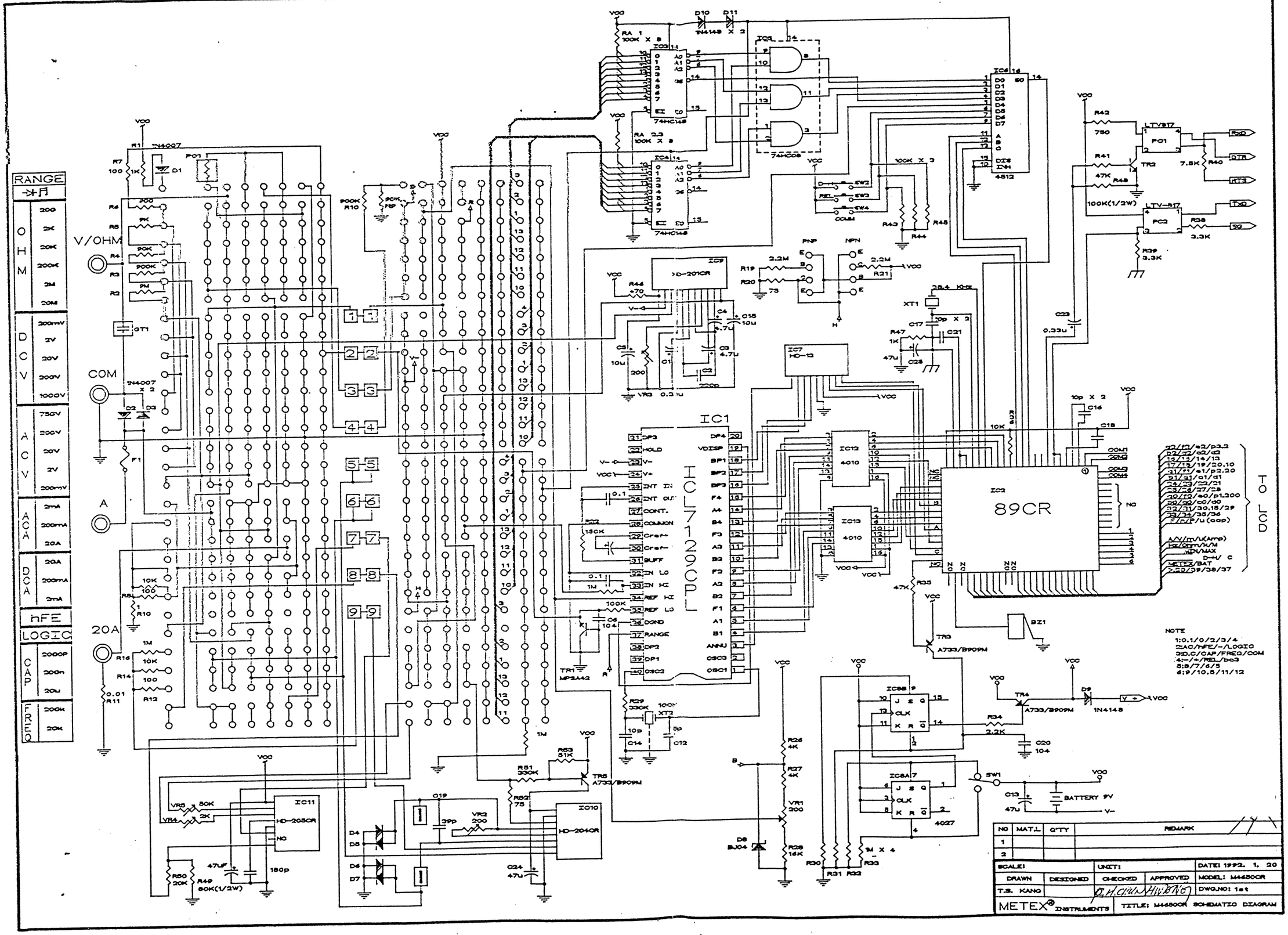
NO	N A M E	RATINGS & DIMENSION	UNIT	Q`TY	PART NO.	REMARKS
126	〃	M 3.0 X 4.0	ea	8		NO SPRING WASHER
127	SCREW BOLT	M 2.6 X 4.0	ea	1		GROUND (SHIELD PAPER)
128	〃	M 3.0 X 5.0	ea	4		C.P.U. BASE 用
129	BACK CASE INSERT	φ 4.0 X 5.0	ea	1		
130	LCD BASE INSERT	φ 4.5 x 5.0	ea	4		
131	FRONT INSERT	φ 4.0 X 12.5	ea	4		in use FRONT CASE
132	GUIDE INSERT	φ 5.0 X 7.0	ea	4		in use BATTERY COVER
133	C.P.U POLE	φ 4.0 X 11.4	ea	1		
134	CARRYING CASE	M 4650CR	ea	1		
135	RS232C PLUG		ea	1		* OPTION
136	MANUAL	M 4650CR	ea	4		
137	TEST LEAD	NEW TYPE	PAIR	1		
138	GIFT BOX	M 4650CR	ea	1		
139	STAND	M 3650B	ea	1		
140	SPONGY	16.0X50.0X10.0t	ea	1		
141	RUBBER FOOT	LARGE (CR 용)	ea	1		
142	〃	SMALL (CR 용)	ea	1		
143	POLY BAG	M 4650CR	ea	1		
144	INTER CONNECTOR	62 X 5.1 X 1.7	ea	1		C.P.U BASE
145	〃	13.7 X 5.1 X 1.7	ea	1		〃
146	〃	25.6 X 5.1 X 1.7	ea	1		〃
147	〃	66.5 X 13.7 X 1.9t	ea	1		
148						
149						
150						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4:-/+/REL/DC3
5:8/7/6/5
6:9/10.5/11/12
METEX INSTRUMENTS
TITLE: M4650CR SCHEMATIC DIAGRAM
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DESIGNED
CHECKED
APPROVED
T.S. KANG
SCALE:
UNIT:
DATE: 1992. 1. 20
MODEL: M4650CR
DWG.NO: 1st
NO
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Q'TY
REMARK